

ABSTRACT OF THE INVENTION

**ANTERIOR SEGMENT CORONARY RESTORATION APPARATUS AND
METHOD**

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The symptoms of congenital heart failure are addressed in this surgical procedure for mounting a patch in the ventricle of the heart to reduce ventricular volume. Placement of the patch is facilitated by palpating a beating heart to identify akinetic, although normal appearing, tissue. An apical patch having an oval configuration facilitates return of the heart to a normal apical shape which enhances muscle fiber efficiency and a normal writhing pumping action. An inferior patch having a triangular configuration can also be used. The patches include a semi-rigid ring, and a circumferential rim to address bleeding. Patch placement is further enhanced by creating a Fontan-type neck and use of pledged sutures. Intraoperative vascularization and valve replacement is easily accommodated. Increased injection fraction, reduced muscle stress, improved myocardial protection, and ease of accurate patch placement are all achieved with this procedure.

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